



[7590-01-P]

NUCLEAR REGULATORY COMMISSION

[Docket No. 50-608; NRC-2019-0173]

SHINE Medical Technologies LLC

AGENCY: Nuclear Regulatory Commission.

ACTION: Operating license application; receipt and availability.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) staff acknowledges receipt of an application submitted by SHINE Medical Technologies, LLC (SHINE), dated July 17, 2019, filed pursuant to the Atomic Energy Act of 1954, as amended, and the NRC's regulations, for an operating license for the SHINE Medical Isotope Production Facility.

DATES: This action takes effect on **[INSERT DATE OF PUBLICATION OF THIS DOCUMENT IN THE *FEDERAL REGISTER*]**.

ADDRESSES: Please refer to Docket ID **NRC-2019-0173** when contacting the NRC about the availability of information for this action. You may obtain publicly-available information related to this action by any of the following methods:

- **Federal Rulemaking Web Site:** Go to <https://www.regulations.gov> and search for Docket ID **NRC-2019-0173**. Address questions about NRC docket IDs in Regulations.gov to Jennifer Borges; telephone: 301-287-9127; e-mail: Jennifer.Borges@nrc.gov. For technical questions, contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- **NRC's Agencywide Documents Access and Management System**

(ADAMS): You may obtain publicly-available documents online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "Begin Web-based ADAMS Search." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to pdr.resource@nrc.gov. The ADAMS accession number for each document referenced (if it is available in ADAMS) is provided the first time that it is mentioned in this document.

- **NRC's PDR:** You may examine and purchase copies of public documents at the NRC's PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

FOR FURTHER INFORMATION CONTACT: Steven T. Lynch, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington DC 20555-0001, telephone: 301-415-1524; e-mail: Steven.Lynch@nrc.gov.

SUPPLEMENTARY INFORMATION: By letter dated July 17, 2019 (ADAMS Accession No. ML19211C044), SHINE filed with the NRC, pursuant to Section 103 of the Atomic Energy Act and part 50, "Domestic Licensing of Production and Utilization Facilities," of title 10 of the *Code of Federal Regulations* (10 CFR), an application for an operating license for the SHINE Medical Isotope Production Facility to be located in Janesville, Wisconsin (ADAMS Package Accession No. ML19211C143).

SHINE has proposed to construct and operate a facility in Janesville, Wisconsin for the production of molybdenum-99 (Mo-99) through the irradiation and processing of a uranyl sulfate solution. As described in the operating license application, the proposed facility would comprise an irradiation facility and radioisotope production facility. The

irradiation facility would consist of eight subcritical operating assemblies (or irradiation units), which would each be licensed as a utilization facility, as defined in 10 CFR 50.2, "Definitions," and supporting structures, systems, and components (SSCs) for the irradiation of low enriched uranium. The radioisotope production facility would consist of hot cell structures, licensed collectively as a production facility, as defined in 10 CFR 50.2, and associated SSCs for the processing of irradiated material and extraction and purification of Mo-99. The irradiation facility and radioisotope production facility are collectively referred to as the SHINE Medical Isotope Production Facility. Issuance of the operating license would authorize the applicant to operate the SHINE Medical Isotope Production Facility for a 30-year period.

By letters dated March 26 and May 31, 2013 (ADAMS Accession Nos. ML13088A192 and ML13172A361, respectively), SHINE (at the time known as SHINE Medical Technologies, Inc.) submitted a two-part construction permit application, as updated in 2015, for its eight utilization facilities and one production facility (ADAMS Package Accession No. ML15258A431). The NRC issued Construction Permit No. CPMIF-001 to SHINE on February 29, 2016 (ADAMS Package Accession No. ML16041A473).

The acceptability of the tendered application for docketing and other matters, including an opportunity to request a hearing, will be the subject of subsequent *Federal Register* notices.

Dated at Rockville, Maryland, this 5th day of September, 2019.

For the Nuclear Regulatory Commission.

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Research and Test Reactors Licensing

Branch,
Division of Licensing Projects,
Office of Nuclear Reactor Regulation.

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